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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/534,573

11/02/2005

Lawrence Carl Panasci

ON/4-32760A

4455

1095

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07/29/2008

NOVARTIS
CORPORATE INTELLECTUAL PROPERTY
ONE HEALTH PLAZA 104/3
EAST HANOVER, NJ 07936-1080

EXAMINER

ANDERSON, JAMES D

ART UNIT

PAPER NUMBER

1614

MAIL DATE

DELIVERY MODE

07/29/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/534,573	Applicant(s) PANASCI ET AL.	
	Examiner JAMES D. ANDERSON	Art Unit 1614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 May 2005 and 08 May 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) 8-9 and 12-13 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7, 10 and 11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>5/11/2005 and 8/21/2006</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Formal Matters

Applicants' Preliminary Amendment, filed 5/11/2005, is acknowledged. Accordingly, claims 1-13 are pending and under examination.

Election/Restrictions

Applicant's election of Group I (claims 1-7 and 10-11) and chlorambucil as the single disclosed nitrogen mustard analogue in the reply filed on 5/8/2008 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 8-9 and 12-13 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 5/8/2008.

Priority

This application is a 371 of PCT/IB03/05454, filed 11/10/2003 and claims priority to U.S. Provisional Application No. 60/425,481, filed 11/12/2002. Support for the instant claims was found in the '481 application. Accordingly, the earliest effective U.S. filing date afforded the instant claims is 11/12/2002.

Information Disclosure Statement

Receipt is acknowledged of the Information Disclosure Statements filed 5/11/2005 and 8/21/2006. The Examiner has considered the references cited therein to the extent that each is a proper citation. Please see the attached USPTO Form 1449.

Claim Rejections - 35 USC § 112 – 2nd Paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 3 recites a combination comprising chlorambucil and imatinib wherein chlorambucil and imatinib are present in “synergistically effective amounts”. The metes and bounds of this claim limitation are not clear. For example, imatinib is disclosed in the specification to be administered at a dose ranging from 50 to 1000 mg and chlorambucil to be administered at a dose of 0.2 to 1 mg/kg/day. However, Applicants provide no guidance with respect to what amounts of imatinib and chlorambucil in a “combination” are “synergistically effective” amounts. Further, claim 3 is also unclear with respect to what the “synergistically effective” amounts are synergistically effective *for*.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by **Virchis *et al.*** (Blood, 2000, vol. 96(11), Part 1, p. 82A) (reference AR on IDS filed May 11, 2005).

Virchis *et al.* teach a combination of chlorambucil and STI-571 (*i.e.*, imatinib) that is applied to CLL cells obtained from 9 CLL patients. Chlorambucil is administered to cells at a fixed concentration of 25 µg/mL (82 µM) and STI-571 at a concentration of 10 µM. The reference thus anticipates the claimed combinations for "simultaneous, separate, or sequential use" comprising chlorambucil and imatinib.

With regard to claims 5 and 6 which recite that the combination is “used for” the treatment of CLL or “used in” a preparation of a medicament for the treatment of CLL, these limitations are not given patentable weight because they do not result in a material difference between the claimed combination and that taught in Virchis *et al.*, which is clearly capable of being used for the treatment of CLL or used in a preparation of a medicament for the treatment of CLL.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-7 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Kimby *et al.*** (Acta Oncol., 2001, vol. 40, nos. 2-3, pages 224-230) (newly cited) (Abstract attached) and **Tallman** (Semin. Hematol., 2002, vol. 39, no. 4, suppl. 3, pages 1-5) (newly cited) (Abstract attached) in view of **Esteve *et al.*** (Haematologica, 1997, vol. 82, pages 596-599) (newly cited).

Kimby *et al.* teach that the primary treatment of patients with symptomatic B-CLL is the oral alkylating agent, chlorambucil (Abstract). The reference does not teach imatinib.

Tallman teaches that imatinib mesylate has “remarkable activity” in patients with chronic myeloid leukemia (CML) (Abstract). The reference does not teach chlorambucil.

Esteve *et al.* teach that occasionally, CML and CLL coexist in the same patient with most cases corresponding to patients who develop CML during the evolutive course of CLL (page 596, left column). In other cases, both disorders are diagnosed simultaneously (*id.*).

Thus, it would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to combine chlorambucil and imatinib for simultaneous, separate, or sequential use. The motivation to do so would be to develop a drug combination that could be predictably used to treat patients simultaneously diagnosed with CLL and CML. The skilled artisan would have been imbued with at least a reasonable expectation that such a combination,

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comprising drugs known to be clinically effective for the treatment of CLL (chlorambucil) and CML (imatinib), would be also be effective for the treatment of these leukemias in patients who are diagnosed with both leukemia types simultaneously as taught in Esteve *et al.*

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Kimby *et al.*** and **Tallman** in view of **Esteve *et al.*** as applied to claims 1-7 and 10 above, and further in view of **MacLeod *et al.*** (USP No. 5,506,257; Issued Apr. 9, 1996) (newly cited).

Kimby *et al.*, Tallman, and Esteve *et al.* teach as discussed *supra* and the same teachings are applied herein in their entirety. Claim 11 differs from Kimby *et al.*, Tallman, and Esteve *et al.* in that Kimby *et al.*, Tallman, and Esteve *et al.* do not disclose a commercial package.

However, it would have been *prima facie* obvious to provide the combination of chlorambucil and imatinib in a commercial package with instructions so as to provide ease of distribution of the combination to physicians and patients with instructions on dosing and potential side effects. Such commercial packages are well known in the art. For example, MacLeod *et al.* teach that pharmaceuticals can be provided in a commercial kit containing the active agent(s) and instructions for treatment of a disorder (col. 7, lines 51-66).

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Virchis *et al.*** as applied to claims 1-7 and 10 above, and further in view of **MacLeod *et al.*** (USP No. 5,506,257; Issued Apr. 9, 1996) (newly cited).

Virchis *et al.* teach as discussed *supra* and the same teachings are applied herein in their entirety. Claim 11 differs from Virchis *et al.* in that Virchis *et al.* do not disclose a commercial package.

However, it would have been *prima facie* obvious to provide the combination of chlorambucil and imatinib in a commercial package with instructions so as to provide ease of distribution of the combination to physicians and patients with instructions on dosing and potential side effects. Such commercial packages are well known in the art. For example, MacLeod *et al.* teach that pharmaceuticals can be provided in a commercial kit containing the active agent(s) and instructions for treatment of a disorder (col. 7, lines 51-66).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES D. ANDERSON whose telephone number is (571)272-9038. The examiner can normally be reached on MON-FRI 9:00 am - 5:00 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel can be reached on 571-272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/James D Anderson/
Examiner, Art Unit 1614

/Ardin Marschel/
Supervisory Patent Examiner, Art Unit 1614